INITIAL REVIEW EXPOSURE REPORT (IRExR)

Chemical ID: M-17-0030 **Reviewer:** [redacted]

Results Table: Dose, Concentration, and Days Exceeded Results Summary

Exposure Scenario[1]	Water						Landfill	Stack Air		Fugitive Air	
Release activity(ies)[2]; exposure calculation(s)[3]	Drinking Water		Fish Ingestion		7Q10[4] CC = 500	PDM Days Exceeded	LADD	ADR (24-hr conc.)	LADD (Annual conc.)	ADR (24-hr conc.)	LADD (Annual conc.)
	ADR	LADD	ADR	LADD							
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day ($\mu g/m^3$)	mg/kg/day ($\mu g/m^3$)	mg/kg/day ($\mu g/m^3$)	mg/kg/day ($\mu g/m^3$)
PROC: Max ADR: max acute eco	**2.42E-03**	---	**1.31E-04**	---	**1.11E+02**	---	---	---	---	**2.20E-02 (1.20E+02)**	---
PROC: PDM1	---	---	---	---	**1.11E+02**	[redacted]	---	---	---	---	---
PROC: Max LADD	---	**4.47E-05**	---	**1.02E-06**	---	---	**6.23E-05**	---	---	---	**5.06E-04 (6.54E+00)**
USE: Max ADR: max acute eco	**2.85E-04**	---	**2.78E-05**	---	**1.29E+01**	---	---	---	---	---	---
USE: PDM1	---	---	---	---	**1.29E+01**	[redacted]	---	---	---	---	---
USE: Max LADD	---	**9.51E-06**	---	**2.17E-07**	---	---	---	---	---	---	---

[1] Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.
[2] Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.
[3] Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario. CC is the aquatic concentration of concern.
[4] This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

Remarks: Eco override due to conflicting information in SAT.
PROC: Used SIC code for Organic Chemical Mfg. USE: Used SIC code for Industrial POTW.

SCALING FACTORS FOR DRINKING WATER DOSE

Age Group	Scaling Factor for ADR	Scaling Factor for ADD
Adults	1.0	1.0
Birth to 1	**4.17**	**11.49**
1-2	1.63	3.91
3-5	1.24	3.10
6-10	1.12	2.51
11-15	0.83	1.77
16-21	0.79	1.55
Pregnant	1.02	2.07
Lactating	1.31	3.84

Scaling factors for ADR are based on the ratio of 95th percentile drinking water intake/body weight for each age group compared to the 95th percentile drinking water intake/body weight ratio for adults from Table 3-1 of the 2011 edition of the Exposure Factors Handbook.

Scaling factors for age specific ADD are based on the ratio of the mean drinking water intake/body weight for each age group compared to the mean drinking water intake/body weight ratio for adults from Table 3-1 of the 2011 edition of the Exposure Factors Handbook.

Note, default LADD values are based on assumption that 33 years of lifetime exposure occurs in adulthood. If that exposure starts at birth, the LADD increases by 10% (1.1). However, central tendency duration (13 years) and consideration of age specific adjustment factors (ADAF) can be considered on an as needed basis (LADD Scaling factors range from 0.6 to 4.1).

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:1 Number of Release Sites: [redacted]

Release Activity: PROC: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1 Number of Sites: [redacted] RELEASE ACTIVITY:PROC: Max ADR

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	0.21	0.64	0.95	1.17
ALL	10	50.57	9.38	5.41	4.53	11.86	63.97	110.91	132.45

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	8.00E-07	4.47E-05	mg/kg/day	1.82E-08	1.02E-06	mg/kg/day
$LADC_{pot}$	6.15E-05	3.44E-03	mg/L	1.94E-04	1.09E-02	mg/kg
Acute						
ADR_{pot}	2.43E-05	2.42E-03	mg/kg/day	2.34E-06	1.31E-04	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 1 RELEASE ACTIVITY:PROC: Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	[redacted]	
Per Site Fugitive Release:	[redacted]	kg/site/day
Fugitive Release Days per Year:	[redacted]	days
% Removal via Fugitive Release:	[redacted]	%
Total Fugitive Release:	[redacted]	kg/yr
Max Annual Average Air Concentration (Fugitive):	[redacted]	$\mu g/m^3$
Max 24 Hour Average Air Concentration(Fugitive):	[redacted]	$\mu g/m^3$
Per Site Stack Release:	NA	kg/site/day
Stack Release Days per Year:	NA	days
% Removal via Stack Release:	[redacted]	%
Total Stack Release:	NA	kg/yr
Max Annual Average Air Concentration (Stack):	0.00	$\mu g/m^3$
Max 24 Hour Average Air Concentration (Stack):	0.00	$\mu g/m^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m^3/hr)
Cancer						
$LADD_{pot}$ (mg/kg/day)	N/A	5.06E-04	33.00	78.00	80.00	0.61
$LADC_{pot}$ (mg/m^3)	N/A	2.77E-03	33.00	78.00	NA	NA
Acute						
ADR_{pot} (mg/kg/day)	N/A	2.20E-02	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data		Fugitive Parameter Data		
Stack Height	10.00	Release Height:	3.00	m
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m
Stack Gas Temperature:	293.00			

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:2 Number of Release Sites: [redacted]

Release Activity: PROC: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2 Number of Sites: [redacted] RELEASE ACTIVITY:PROC: PDM1

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	0.21	0.64	0.95	1.17
ALL	10	50.57	9.38	5.41	4.53	11.86	63.97	110.91	132.45

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	8.00E-07	4.47E-05	mg/kg/day	1.82E-08	1.02E-06	mg/kg/day
$LADC_{pot}$	6.15E-05	3.44E-03	mg/L	1.94E-04	1.09E-02	mg/kg
Acute						
ADR_{pot}	2.43E-05	2.42E-03	mg/kg/day	2.34E-06	1.31E-04	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2 RELEASE ACTIVITY: PROC: PDM1

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:3 Number of Release Sites: [redacted].

Release Activity: PROC: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3 Number of Sites: [redacted] RELEASE ACTIVITY:PROC: Max LADD

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	N/A	N/A	N/A	N/A
ALL	10	50.57	9.38	5.41	4.53	N/A	N/A	N/A	N/A

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	8.00E-07	4.47E-05	mg/kg/day	1.82E-08	1.02E-06	mg/kg/day
$LADC_{pot}$	6.16E-05	3.44E-03	mg/L	1.95E-04	1.09E-02	mg/kg
Acute						
ADR_{pot}	N/A	N/A	mg/kg/day	N/A	N/A	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 3 ACTIVITY: PROC: Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE[1] AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR[2]	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	0.00

[1] Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

[2]

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
$LADD_{pot}$ (mg/kg/day)	6.23E-05	33.00	78.00	80.00	1.04
$LADC_{pot}$ (mg/L)	4.79E-03	33.00	78.00	NA	NA

REMARKS:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 3 RELEASE ACTIVITY:PROC: Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	[redacted].	
Per Site Fugitive Release:	[redacted]	kg/site/day
Fugitive Release Days per Year:	[redacted]	days
% Removal via Fugitive Release:	[redacted]	%
Total Fugitive Release:	[redacted]	kg/yr
Max Annual Average Air Concentration (Fugitive):	[redacted]	$\mu g/m^3$
Max 24 Hour Average Air Concentration(Fugitive):	N/A	$\mu g/m^3$
Per Site Stack Release:	NA	kg/site/day
Stack Release Days per Year:	NA	days
% Removal via Stack Release:	[redacted]	%
Total Stack Release:	NA	kg/yr
Max Annual Average Air Concentration (Stack):	0.00	$\mu g/m^3$
Max 24 Hour Average Air Concentration (Stack):	N/A	$\mu g/m^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m^3/hr)
Cancer						
$LADD_{pot}$ (mg/kg/day)	N/A	5.06E-04	33.00	78.00	80.00	0.61
$LADC_{pot}$ (mg/m^3)	N/A	2.77E-03	33.00	78.00	NA	NA
Acute						
ADR_{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data		Fugitive Parameter Data		
Stack Height	10.00	Release Height:	3.00	m
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m
Stack Gas Temperature:	293.00			

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:4 Number of Release Sites [redacted]

Release Activity: USE: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4 Number of Sites: [redacted] RELEASE ACTIVITY:USE: Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.35	0.81	1.28	1.51
ALL	10	39.60	13.29	7.76	7.57	2.53	7.52	12.89	13.21

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	1.31E-06	9.51E-06	mg/kg/day	2.98E-08	2.17E-07	mg/kg/day
$LADC_{pot}$	1.01E-04	7.32E-04	mg/L	3.18E-04	2.31E-03	mg/kg
Acute						
ADR_{pot}	3.06E-05	2.85E-04	mg/kg/day	3.83E-06	2.78E-05	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:5 Number of Release Sites: [redacted]

Release Activity: USE: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5 Number of Sites: [redacted] RELEASE ACTIVITY:USE: PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.35	0.81	1.28	1.51
ALL	10	39.60	13.29	7.76	7.57	2.53	7.52	12.89	13.21

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	1.31E-06	9.51E-06	mg/kg/day	2.98E-08	2.17E-07	mg/kg/day
$LADC_{pot}$	1.01E-04	7.32E-04	mg/L	3.18E-04	2.31E-03	mg/kg
Acute						
ADR_{pot}	3.06E-05	2.85E-04	mg/kg/day	3.83E-06	2.78E-05	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5 RELEASE ACTIVITY: USE: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030 Assessor: [redacted]

ENVIRONMENTAL RELEASES

Scenario#:6 Number of Release Sites: [redacted].

Release Activity: USE: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:	[redacted]	[redacted]	[redacted]	[redacted]
Per Site Release:	[redacted]	[redacted]	[redacted]	[redacted]
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: M-17-0030

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6 Number of Sites: [redacted] RELEASE ACTIVITY:USE: Max LADD

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[redacted]	[redacted]	[redacted]	[redacted]	0.00	3.16

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	N/A	N/A	N/A	N/A
ALL	10	39.60	13.29	7.76	7.57	N/A	N/A	N/A	N/A

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
$LADD_{pot}$	1.31E-06	9.51E-06	mg/kg/day	2.98E-08	2.17E-07	mg/kg/day
$LADC_{pot}$	1.01E-04	7.32E-04	mg/L	3.18E-04	2.31E-03	mg/kg
Acute						
ADR_{pot}	N/A	N/A	mg/kg/day	N/A	N/A	mg/kg/day

SIC Code Comments: